

# Graduate Positions in Insect Ecophysiology and Molecular Biology




[www.macmillanlab.com](http://www.macmillanlab.com)

Positions are currently available in the MacMillan Lab at Carleton University for enthusiastic and motivated PhD or MSc students to study the physiological and molecular mechanisms that underlie insect thermal tolerance.

We use insects, like fruit flies and locusts as models to understand how temperature alters ectotherm physiology, and how these effects cascade through organ systems to determine cell, organ, and organismal survival and fitness.

## Projects and Environment

Projects available are related to the plasticity, evolution, and molecular physiology of:

-  Paracellular junctions.
-  Epithelial ion transport.
-  Neuropeptide signaling.

Gain access to a range of experimental techniques (e.g. ion-sensing technologies, elemental analysis, bioinformatics, and immunohistochemistry).

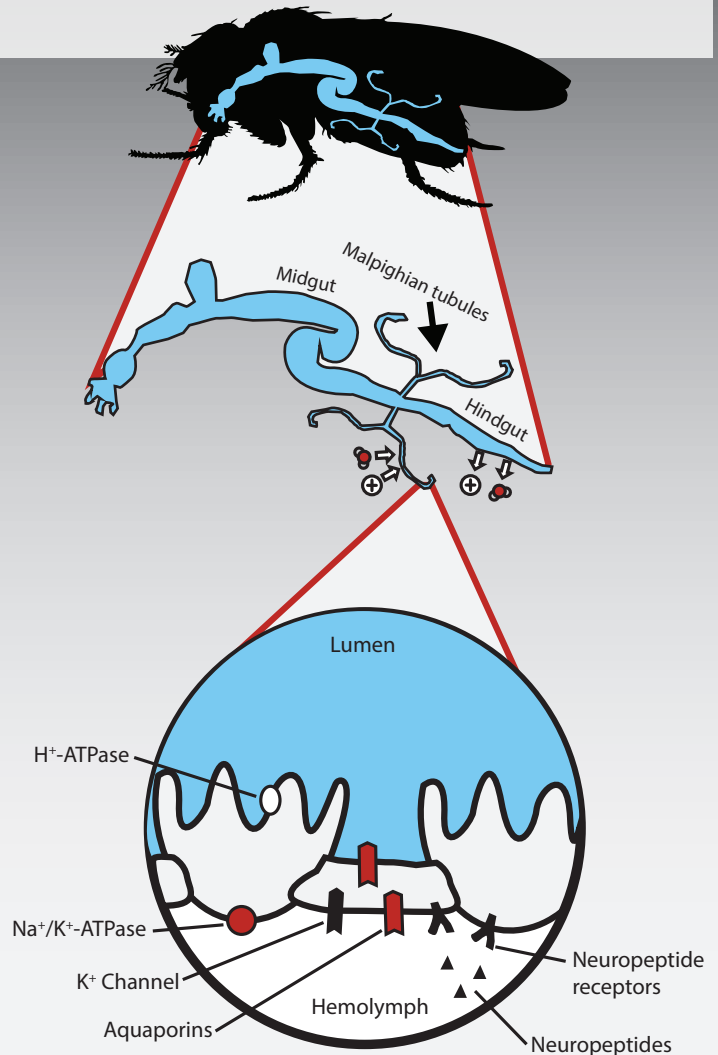
Experience a wealth of opportunities for developing your skills as a teacher, mentor, and communicator.

## Required skills

A strong academic background (minimum 75% average in the last two years of study).

Knowledge of, or preferably experience in, techniques related to insect molecular biology and/or genetics.

Demonstrated excellence in written and oral science communication.



## To Apply

Please send a cover letter, CV, and unofficial copy of your transcripts to:

**Dr. Heath MacMillan**

[heath.macmillan@carleton.ca](mailto:heath.macmillan@carleton.ca)



People who identify with groups underrepresented in STEM fields are particularly encouraged to apply!



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